Require Improvements in the Quality of Gas Received from Producers



Partner Reported Opportunities (PROs) for Reducing Methane Emissions

PRO Fact Sheet No. 904

reductions of more than 500 Mcf for 1 year.

Applicable sector(s): □ Production □ Processing □ Transmission and D Partners reporting this PRO: Columbia Gulf Transmission Other related PROs: None	Compressors/Engines Dehydrators Pipelines Pneumatics/Controls Tanks Valves Wells Other
Technology/Practice Overview Description Low quality natural gas can lead to excessive filtration unit liquid recovery and transmission line cleanings at compressor stations. A partner has reported reducing methane and volatile organic compounds (VOC) emissions associated with these maintenance practices by requiring improvements in the quality of gas received from producers. To enact a methane quality improvement, the operator obtained revised gas processing and compression agreements requiring reduced levels of gas contaminants such as particulates, water, and gas liquids. This limited the amount of emissions associated with the gas filtration system operation, in particular, methane emissions from gas liquids storage tanks.	
Operating Requirements The implementation of this practice requires a new agreement between the gas producer and the transporter or enforcement of existing gas quality specifications. Applicability Any compressor facility directly receiving production gas and experiencing excessive liquids filtration, line pigging, or receiving natural gas of lower than desired quality may benefit from improving their gas quality specifications. Methane Emissions Reductions	

Economic Analysis

Basis for Costs and Savings

A methane emissions reduction of 500 Mcf per year is based on partner reported savings in a 600-psig system.

Discussion

Facility maintenance costs and VOC emissions will be lower with reduced liquid loading on the filtration unit. Methane savings are significant, but not a primary justification.

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